

# Bringing It All Together: SOA – Cloud – Semantic Integration

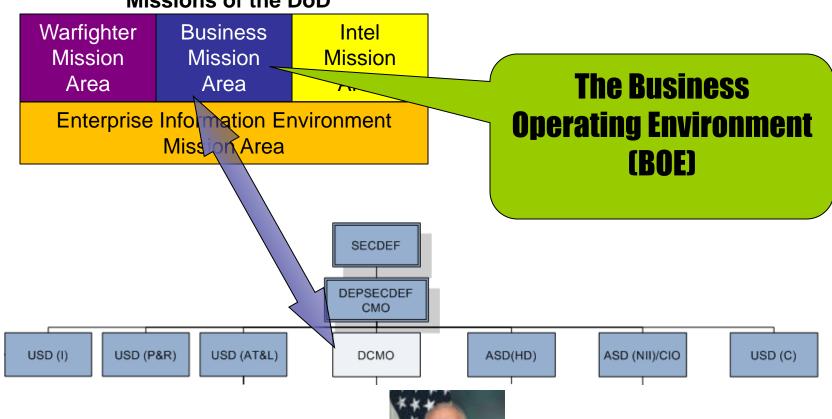
Dennis E. Wisnosky,
DoD BMA CTO &
Chief Architect in the
Office of the Deputy Chief
Management Officer

**April 21, 2010** 



#### DCMO CTO/CA

#### Missions of the DoD



Dennis E. Wisnosky, DoD BMA CTO & Chief Architect in the Office of the Deputy Chief Management Officer (DCMO)

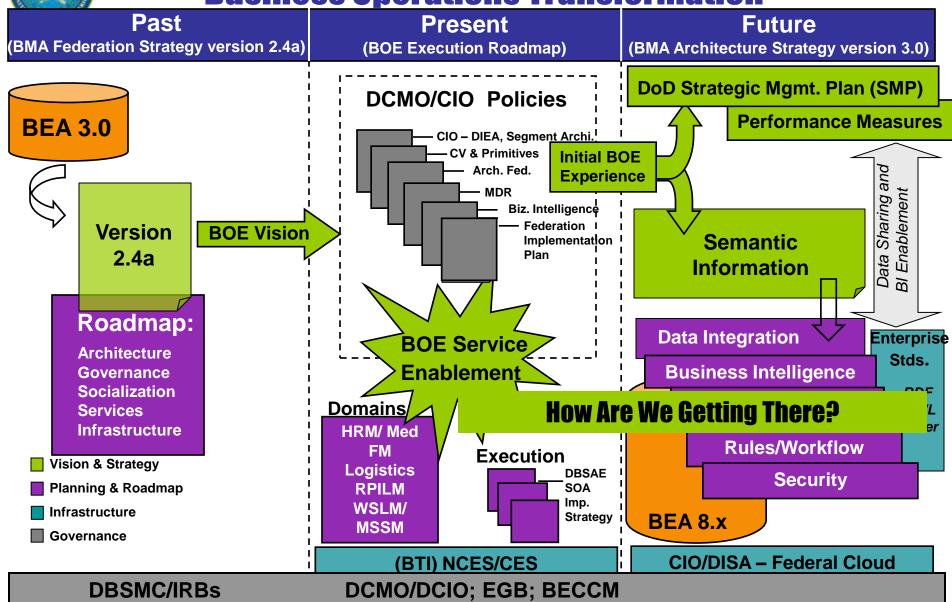




#### The Business Operating Environment



Strategy and Roadmap for DoD Business Operations Transformation



## Notes of the state of the state

#### **Websites for SOA and Business Operating Environment Updates**

#### **By Reaching Out**



http://www.bta.mil/products/training/SOA/index.html

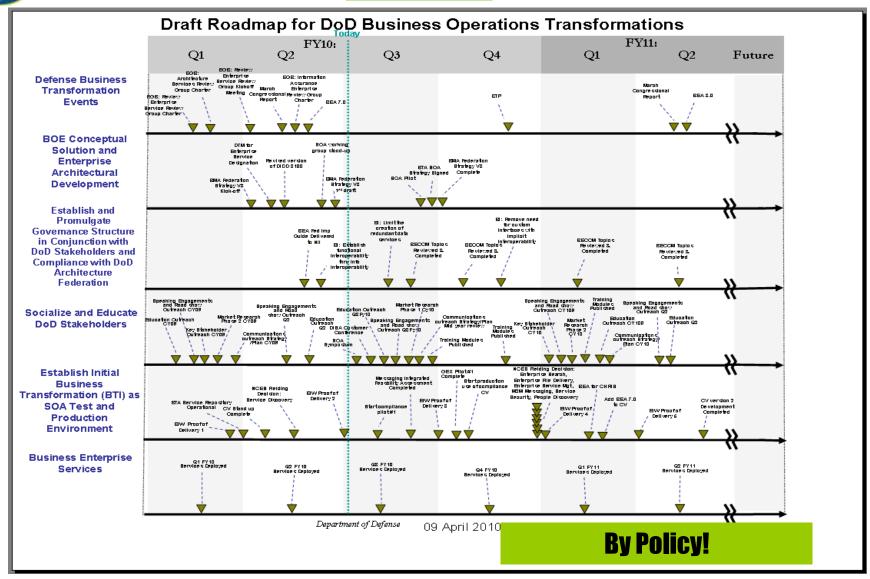
http://www.bta.mil/products/bea\_7\_0/BEA/html\_files/soa.html





#### **Roadmap for DoD Business Operations Transformation**

#### **By Roadmap**





## **Interoperability Policy Goals:**

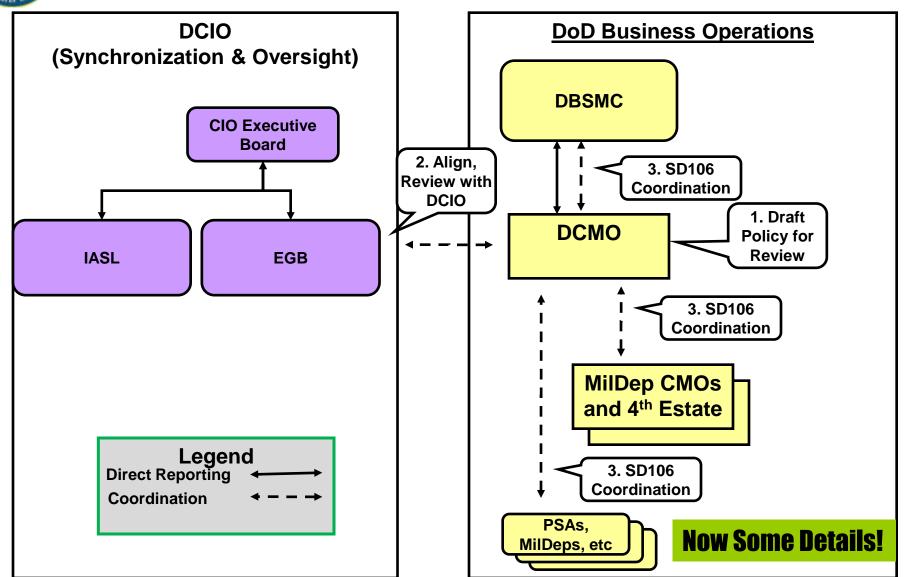
## Objective: De-conflict redundant capabilities and informational silos

- Policy to Establish functional interoperability through informational interoperability
  - Identify redundant capabilities using common vocabulary
  - Create understandable business processes using standardized representation (Primitives)
  - Create consistent and reusable vocabularies using CARP\*
- 2. Policy to Limit the creation of new data services to only those cases when they cannot be created from existing information exchanges
- 3. Policy to Remove the need for custom interfaces by creating implicit interoperability
  - Make information understandable using information models
  - Create standardized and reusable methods for accessing data
  - Create physical instantiation of the common vocabulary

\*Reference DoDAF 2.0 Journal Best Practices, Architecture Methodology



## **Joint Policy Approach**



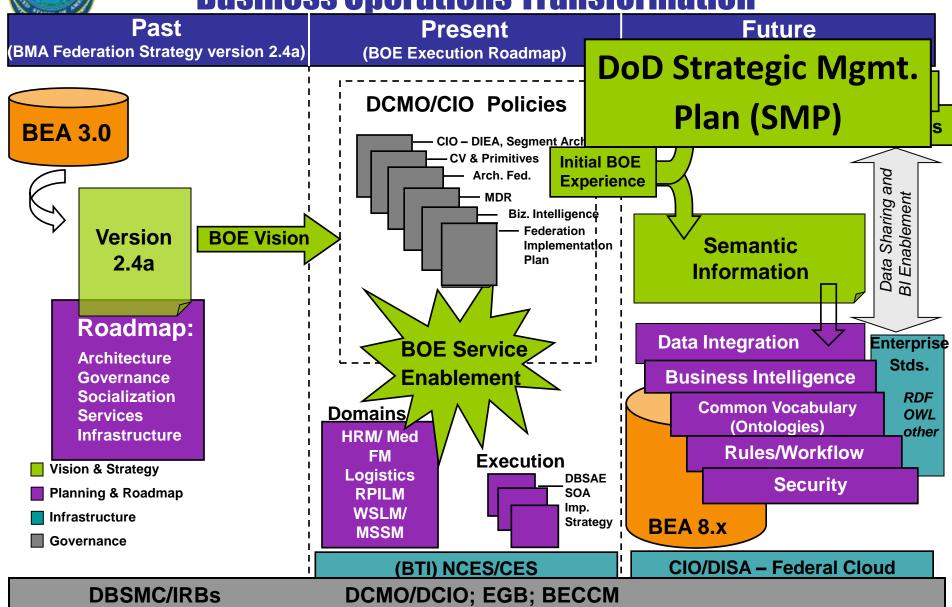


## Where We Are Heading!

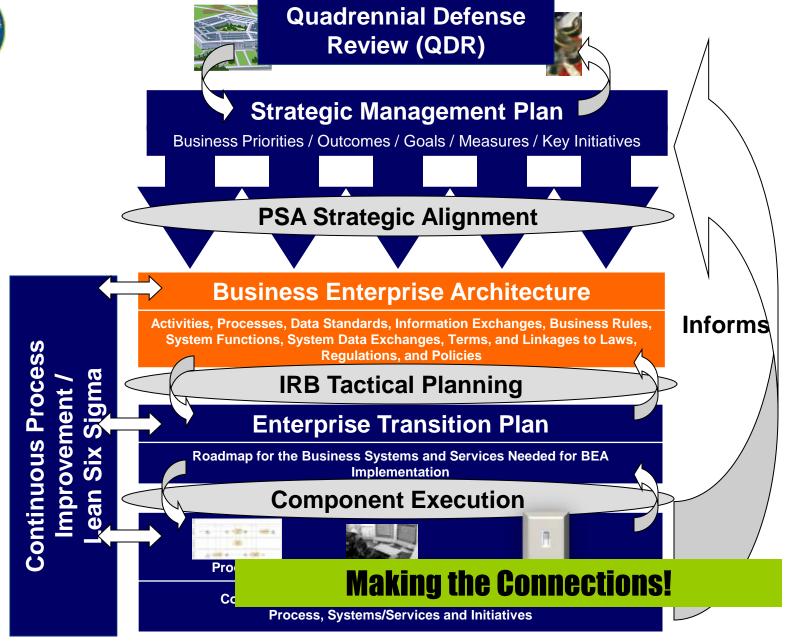
**The BOE Vision – Version 3.0** 

Strategy and Roadmap for DoD

Business Operations Transformation



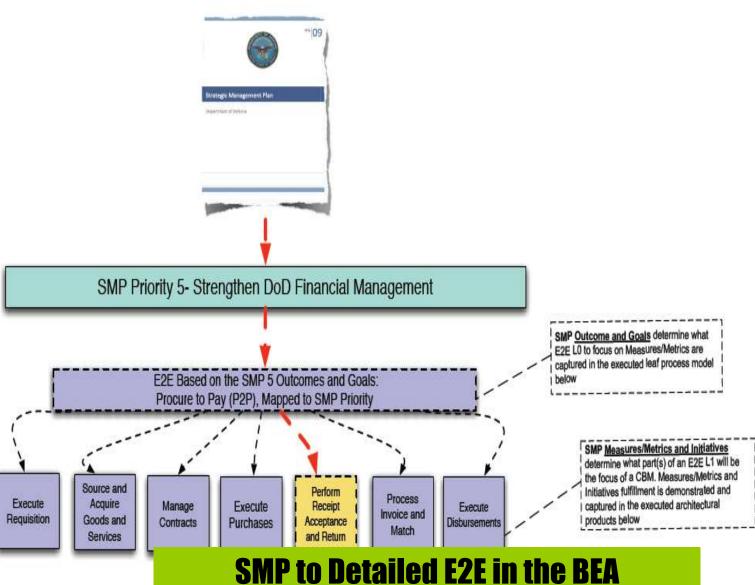






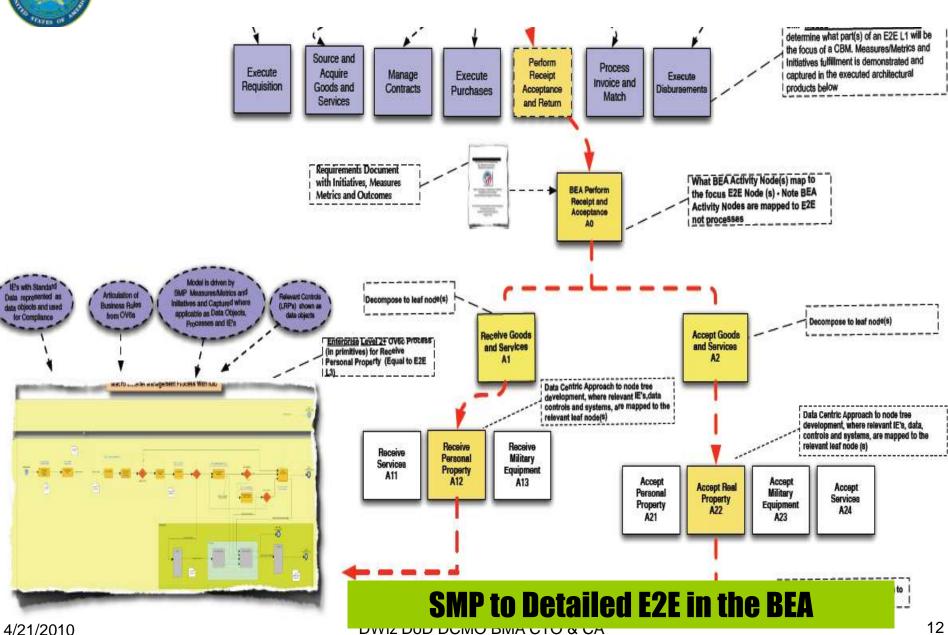
March 16th, 2010 SMP - E2E - BEA DRAFT Alignment Case Study Author - BEA Team

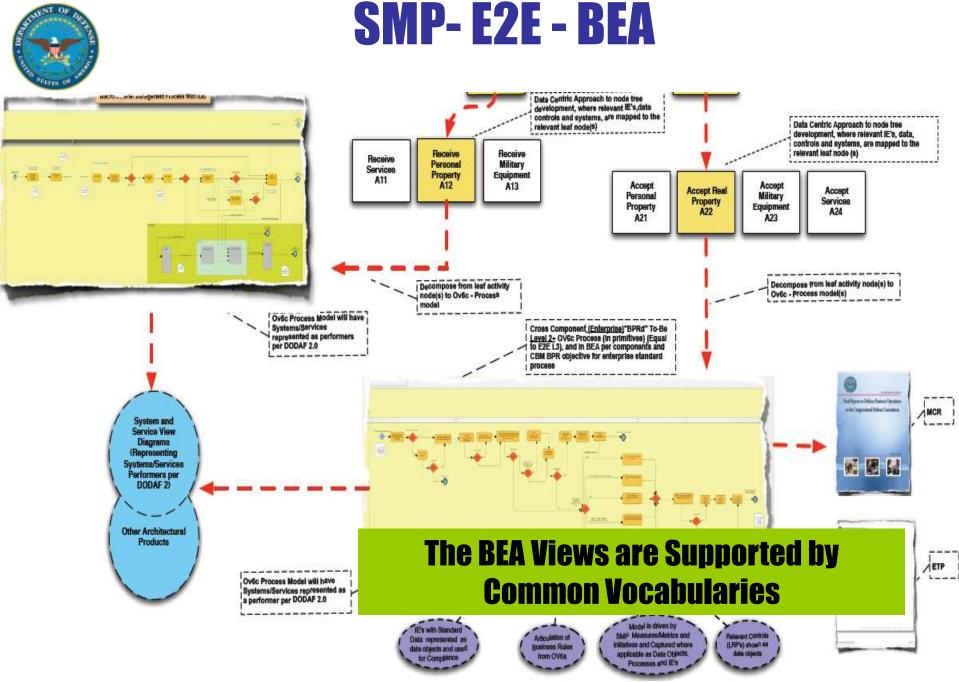
#### **SMP-E2E-BEA**





#### **SMP- E2E - BEA**



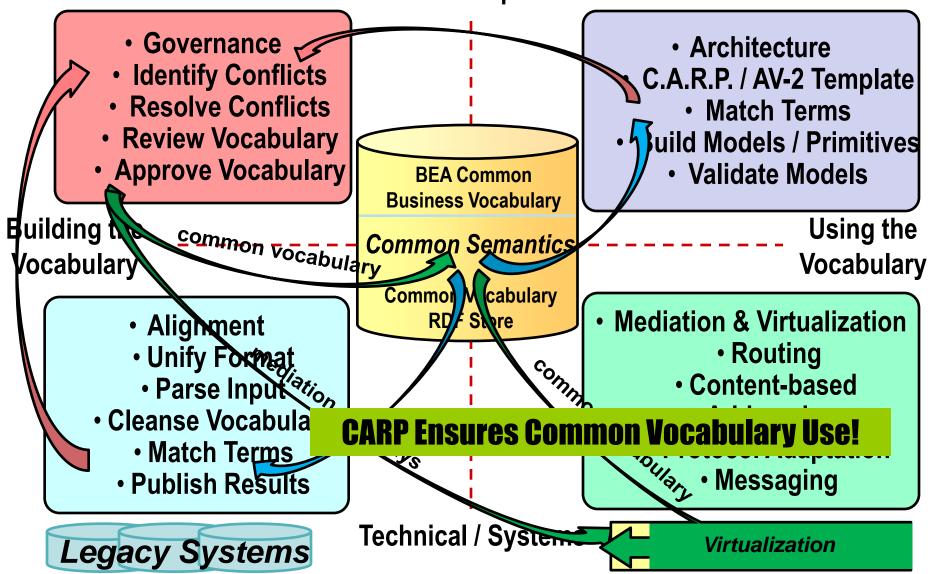


4/21/2010



## **Common Vocabulary**

**Functional / Requirements** 





### **Building Common Vocabularies**

What is the architecture supposed to achieve?

Which processes/ activities will provide the capabilities?

Which data/ resources will be consumed or produced? Who/What will be involved?

<u>Capability</u> Vocabulary <u>A</u>ctivity Vocabulary Resource Vocabulary <u>P</u>erformer Vocabulary

#### Items:

- Objectives
- Features
- Services

Capability View

#### **Items:**

Verbs

Process View

#### **Items:**

Nouns

Data & Rule View

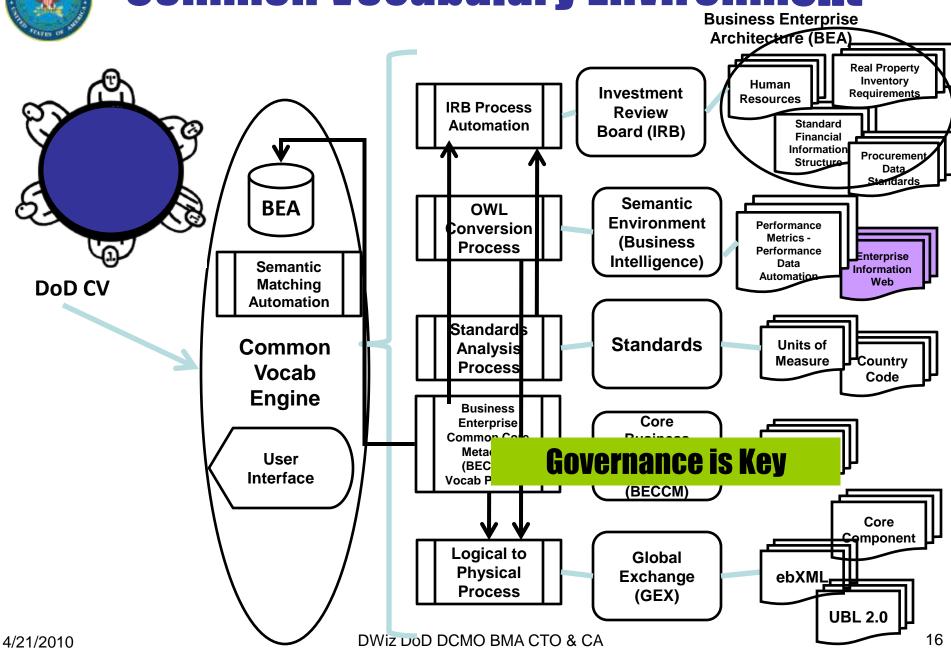
#### **Items:**

- Roles
- Systems
- Actors

Process View



## **Common Vocabulary Environment**



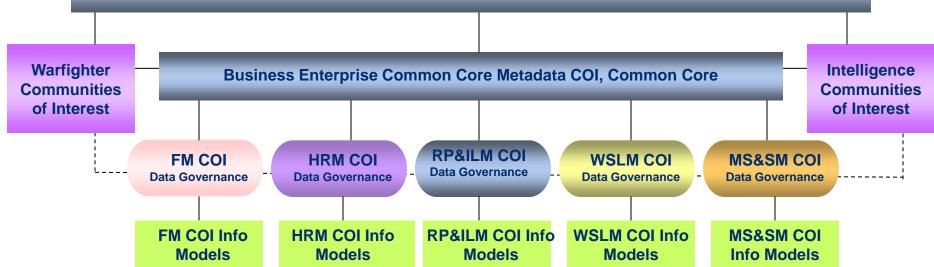


# Adjudicating the Business Enterprise Common Vocabulary

The BECCM COI provides governance for the DoD's end-toend business process enterprise standards

- In the event conservation of the reached at the CO Primitives to Patterns to BI! adjudicate across functional areas







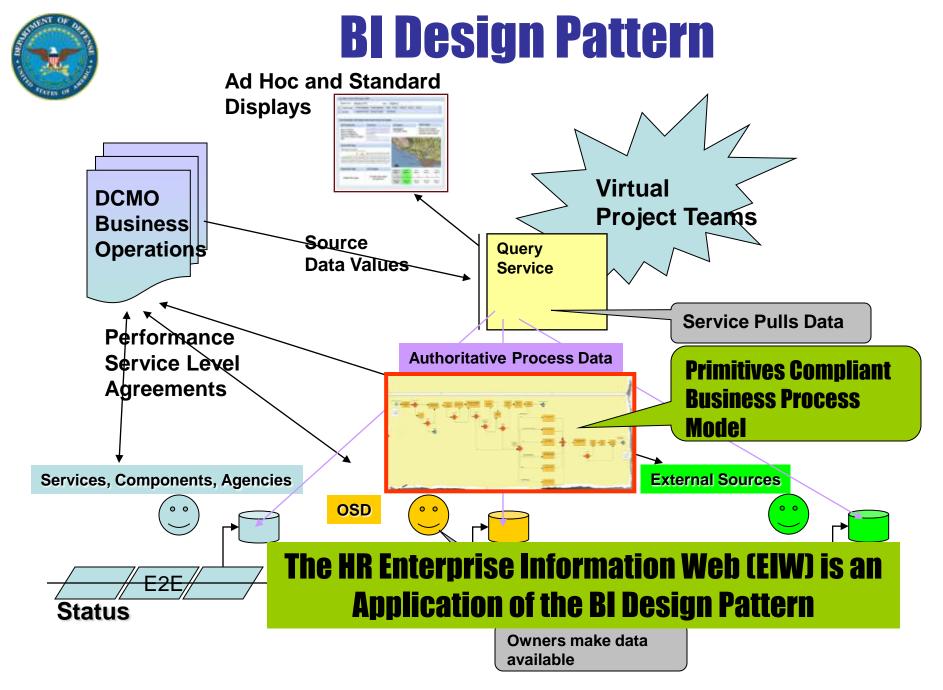
#### **Architecture Primitives Series**



**DoD Architecture Framework Processes Best-Practice** 

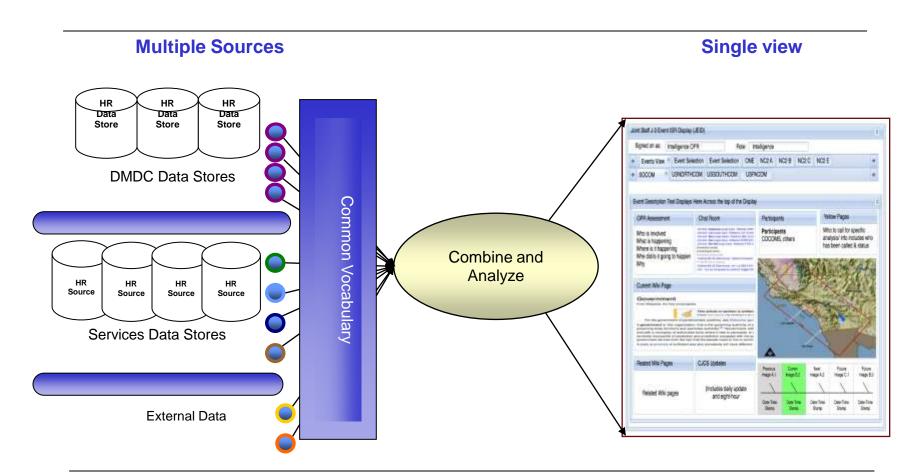
http://cio-nii.defense.gov/sites/dodaf20/journal\_exp3.html

**The Design Pattern!** 





### **HR EIW BI Example**

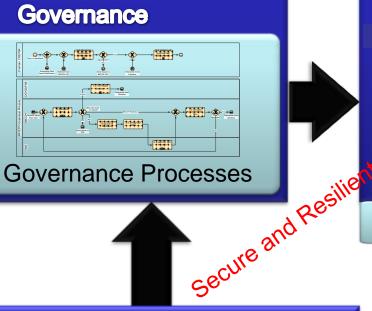


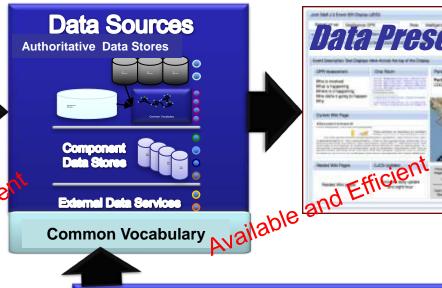
Combine multiple data and service sources into single view

**All of the Pieces Fit Together!** 



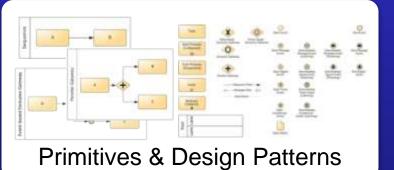
#### **All of the Pieces Together!**



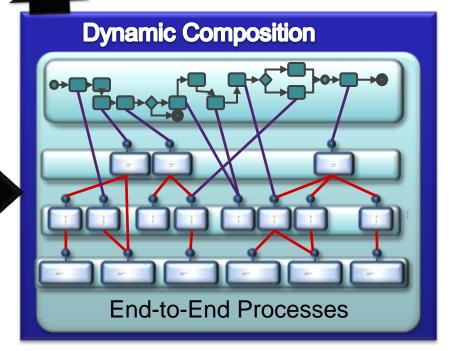








Interoperable and Federated





## Thank your

Questions?
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